

Product datasheet for **RG220971**

DGAT2L4 (AWAT2) (NM_001002254) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGAT2L4 (AWAT2) (NM_001002254) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DGAT2L4
Synonyms:	ARAT; DC4; DGAT2L4; MFAT; WS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220971 representing NM_001002254 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCTTGCCCTCTAAGAAGGACCTCAAGACTGCCCTGGATGTCTTTGCTGTTTTCCAGTGGTCTTCA
GTGCCTTGCTTATCACAACCACTGTGATTGCTGTCAACCTCTACCTGGTGGTGTTCACACCATACTGGCC
TGTCACCTGTGCTTATTCTTACCTGGCTGGCTTTGACTGGAAGACCCCTCAGCGAGGCGGCCCGGTTT
ACCTGTGTGAGGCACTGGCGCTGTGAAACACTACAGCGATTATTTCCCTCTCAAGCTTCTGAAGACTC
ATGACATCTGCCAGCCGCAACTACATCCTCGTCTGCCACCCTCATGGGCTCTTTGCCATGGATGGTT
TGGCCACTTTGCCACAGAGGCTCAGGCTTCTCCAAGATATTTCCCTGGCATCACCCCTTACATACTCACA
CTGGGAGCCTTTTTCTGGATGCCTTTCCTCAGAGAATATGTAATGTCTACAGGGCCTGCTCTGTGAGTC
GATCCTCCATTGACTTTCTGCTGACTCATAAAGGCACAGGCAACATGGTCATTGTGGTGATTGGTGGACT
GGCTGAGTGCAGATACAGCCTGCCAGGTTCTTCTACCCTGGTGTGAAGAACCGGTCTGGCTTTGTGCGC
ATGGCCCTCAGCATGGGGTGCCTTAATACCTGCCTATGCCTTTGGGGAGACGGACCTCTATGATCAGC
ACATTTTCACTCCTGGTGGCTTTGTCAACCGCTCCAGAAGTGGTCCAGAGCATGGTACACATCTACCC
TTGTGCTTTCTATGGACGTGGCTTACCAAGAAGTCCCTGGGGCCTTCTGCCCTATAGTCGGCCTGTAACC
ACCATCGTCGGGGAGCCTTACCAATGCCAAGATTGAGAATCCAAGCCAGGAGATCGTGGCTAAATATC
ACACACTATATTGATGCCCTACGTAAGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
CCAGGAGCTGGAGATAATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220971 representing NM_001002254
Red=Cloning site Green=Tags(s)

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MLLPSKKDLKTALDVFVQWFSALLITTTVIAVNLVYVFTPYWPVTVLILTWLAFDWKTPQRGGRRF
TCVRHWRLWKHYSDYFPLKLLKTHDICPSRNYILVCHPHGLFAHGWFHGFATEASGFSKIFPGITPYILT
LGAFFWMPFLREYVMSTGACSVSRSSIDFLLTHKGTGMVIVVIGGLAECRYSLPGSSTLVLKNRSGFVR
MALQHGVPPLIPAYAFGETDLYDQHIFTPGGFVNRFAQWFQSMVHIYPCAFYGRGFTKNSWGLLPYSRPVT
TIVGEPLPMPKIENPSQEIVAKYHTLYIDALRKLFDQHKTKFGISETQELEII
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001002254

ORF Size: 999 bp

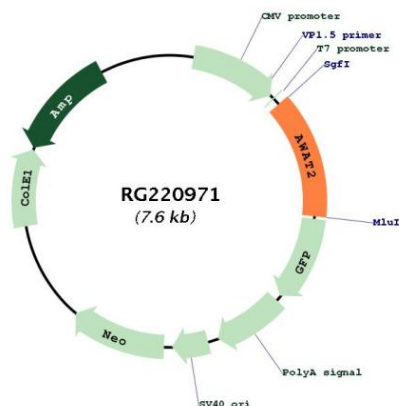
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001002254.1 , NP_001002254.1
RefSeq Size:	2124 bp
RefSeq ORF:	1002 bp
Locus ID:	158835
UniProt ID:	Q6E213
Cytogenetics:	Xq13.1
Protein Families:	Transmembrane
Protein Pathways:	Glycerolipid metabolism, Metabolic pathways, Retinol metabolism
Gene Summary:	This gene encodes an enzyme belonging to the diacylglycerol acyltransferase family. This enzyme produces wax esters by the esterification of long chain (or wax) alcohols with acyl-CoA-derived fatty acids. It functions in lipid metabolism in the skin, mostly in undifferentiated peripheral sebocytes. This enzyme may also have acyl-CoA:retinol acyltransferase activities, where it catalyzes the synthesis of diacylglycerols and retinyl esters. [provided by RefSeq, May 2010]

Product images:



Circular map for RG220971